

Sept. 18, 1963

High Resolution Screen

(Potential Proposal)

[REDACTED]

[REDACTED] submitted a proposal last July 19, 1963 for a "High Intensity, High Resolution Projection System". Both [REDACTED] felt that there were several worthwhile concepts in this proposal which should be pursued. It seemed best however that each should be proposed separately.

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[REDACTED] is preparing a proposal on investigation of high resolution Fluorescent screens. The concepts of flicker fusion and time sequenced color projection will be considered separately. They expect to mail their proposal tomorrow.

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They are proposing to investigate crystalline and organic fluorescent coatings to determine the trade off between the resolution and brightness. As the coating gets thinner, the resolution increases and the brightness decreases. For organic coatings, the fluorescence is a molecular event and therefore the resolution should be extraordinarily good.

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[REDACTED] an associate organization will do the coating investigation. They are well equipped for it both in personnel and equipment. A descriptive brochure is enclosed.

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[REDACTED] has come up with a very interesting concept of combining a real image formed on a transparent phosphor screen excited by UV with an aerial image projected in visual light through the transparent screen. Such a combination may provide the required trade off range to permit both high resolution and high screen intensity.

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The present screen resolution limitations make it highly desirable to pursue the proposed program.

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